

19 + 34

PROJ.

No.

8120

South Bene

Le Hillier

108 N

R 27 W

BLUE EARTH COUNTY HIGHWAY DEPARTMENT

OVERLAY & AGGR. SHOULDER CONSTRUCTION PLAN FOR BITUMINOUS

COUNTY ROAD No. 120

FROM: A PT. 1470' S. & 230' W. BETWEEN: T.H. 169 AND CSAH No. 69 TO: A PT. 175' N. & 40' E. COR. OF SEC. 21-108-27 COR. OF SEC. 21-108-27 유 THE 유 z. THE N

NET LENGTH BRIDGE LENGTH GROSS LENGTH 1,934.00 1,934.00 000.00 FEET FEET FEET 0.366 0.366 0.000 MILES MILES MILES

OVERLAYED IN: 1995 UNDER CO. PROJ. Z 0. 591

BEGIN CO. PROJ. No. 8120 123 doz 29 9 0

60 6

23

STA 0+0C

W 27 8

DESIGN DESIGNATION

SHOULDER WIDTH 3' DESIGN SPEED NOT ACHIEVED ADT (Heavy Commercial) ADT (Future Year) 531 2034 ADT (Current Year) 354 2014 SOIL FACTOR 130 DESIGN SPEED 40 MPH ESAL 172,000 TON DESIGN

GOVERNING SPECIFICATIONS

STOPPING SIGHT DISTANCE BASED

9

SHEET No.

DETAILS

HEIGHT OF OBJECT HEIGHT OF EYE

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

SHEET No. SHEET No. 1 INDEX OF SHEETS ESTIMATED QUANTITIES TITLE

SHEET No. SHEET No. SHEET No. CHARTS STANDARD PLATES TYPICAL SECTIONS

PLAN NOT TO SCALE

> COMPLIED WITH. IN THE CONSTRUCTION OF THIS PROJECT. ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL 88

BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. I HERE BY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED

DATE

ALAN FORSBERG

L1C. No. 14720

0. PROJ. Z 0. 8120 SHEET Z 0. _ 9 σ SHEETS

155	0	155	L I N F T	(2) 2580.501 TEMPORARY LANE MARKING	2580.501	(2)
532	0	532	TON	(1) 2360.501 SP TYPE 19.0 WEARING COURSE MIX (2.B)	2360.501	(1)
829	0	829	SO YD	(1) 2232.501 MILL BITUMINOUS SURFACE	2232.501	(1)
158	0	158	NOT	(1) 2221.501 AGGREGATE SHOULDERING.CL-1 (M)	2221.501	(1)
21	0	21	TON	(1) 2118.501 AGGREGATE SURFACING, CL-2 (M)	2118.501	(1)
UNIT CR # NON 120 PART, TOTAL	PART.	CR #	TINU	ITEM	NO.	

CERT.

8

Sar

LIC. No.

14720 MAR. 10, 2014

9 0

SHEETS

⁽¹⁾ BASIS OF PAYMENT SPECIFIED IN SPEC. 1903 SHALL BE MODIFIED TO PRECLUDE ANY PRICE ADJUSTMENT FOR INCREASED OR DECREASED QUANTITIES.
(2) PLACED ON EVERY LIFT, REMOVED BEFORE NEXT LIFT AND PRIOR TO STRIPING.

BASIS FOR PLANNED QUANTITIES

AGGREGATE SHOULDERING, & SURFACING COMPACTED DRY DENSITY — 140 LBS. PER CU. FT.

BITUMINOUS SURFACE BITUM: MAT'L FOR TACK WILL BE INCIDENTAL.

BITUM. MAT'L FOR WEAR COURSE AC (PG 58-28) 5.8% BY WEIGHT

BITUM. COURSES, 110 LBS. PER 1" / SQ. YD.

THE FOLLOWING STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY

10008	PLATE NO.	
STANDARD BARRICADES	DESCRIPTION	STANDARD PLATES

CERT.

120 BITUM.dgn 3/4/2014 9:58:39 AM

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LIC. NO. 14720 MAR. 10, 2014

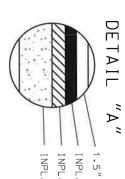
BOAD # CB 190				
)T#	120			
LENGTH WIDTH LOCATION FEET FEET FEET	_	DEPTH	AGGR. SHLD. TON	AGGR. SURF. TON
SHOULDER CL-1M				
0 TO STA 16 + 50	ω	2	60	
STA 16 + 80 TO STA 19 + 34 RT 254	ω	N	10	
0 + 0 TO	ω	N	60	
80 TO STA 19 + 34 LT	ω	- 22	10	
MATERIAL FOR FIELD ENTRANCES			18	
AGGR. SURFACING CL-2 (M)				
2 DRIVEWAYS @ 7 TONS 1 INTERSECTIONS @ 7 TONS				14 7
P.BITUM14baumCR 120(120 QUANTITIES.xis)A TOTAL	A L		158	21

532		TOTAL		P.ISITUM.14bitumICR 120(120 QUANTITIES xis)A
90 30 10	in.	w	350	3 INTERSECTIONS @ 30 TONS 2 DRIVEWAYS @ 15 TONS 2 MAILBOX PADS @ 175 LENGTH
348 54	1 in in	23	1650 254	BITUM. WEAR STA 0+ 0 TO STA 16 + 50 STA 16+ 80 TO STA 19 + 34
WEAR	DEPTH WEAR INCHES TON	AVER WIDTH FEET	LENGTH FEET	LOCATION
		SNC	ULATIC	CR 120 SUPERPAVE BITUM. CALCULATIONS

M -		BITUM.		SU	SURFACE	m	
STATION TO STATION	TO STA	NOIT		LOC.	LOC. LENGTH WIDTH	WIDTH	SQ.YD.
		<u>_</u>	0	Ը	100	23	256
17 + 0	0 TO	17 4	- 55 CL	은	55	23	141
		19 +		Ը	169	23	432
						TOTAL	829
						TOTAL	829

NOTES:
START MILLING AT BEGINNING OF THE JOB AND END OF JOB AT 1.5" DEPTH AND TAPER OUT 100' TO 0".
START MILLING 5' AWAY FROM R.R. TRACKS ON BOTH SIDES AT 1.5" DEEP AND TAPER OUT 50' TO 0"

QUANTITIES



INPLACE 1.5" WEARING COURSE MIXTURE (2331) INPLACE 2" BINDER COURSE MIXTURE (2331) 1.5" SP WEARING COURSE MIXTURE (2360)

INPLACE 6" AGGR. BASE CL-5 (2211)

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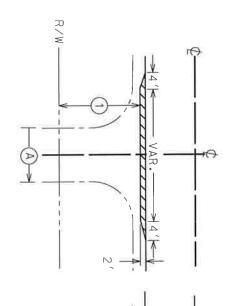
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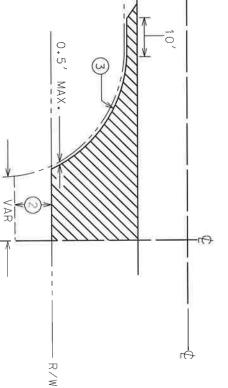
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BITUMINOUS APPROACHES AND ENTRANCES DETAIL

FIELD ENTRANCE

ROAD APPROACH



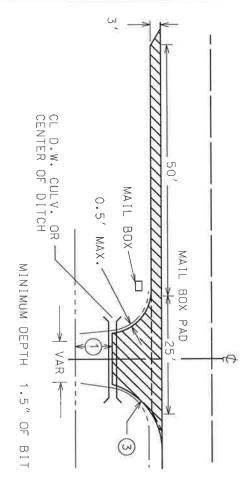


A 20' FOR SINGLE F.E. 28' FOR DOUBLE F.E.

MINIMUM DEPTH 1.5" OF BIT

MINIMUM DEPTH 1.5" OF BIT

FARM & OTHER ENTRANCES



- EDGE OF BITUM. TO A MIN. OF 10'.
- (2) FINISH WITH AGGR. MATERIAL, MIN. OF 10'.
- (FOR FARM D.W. CONSIDER 30' TO 40' MAX.)

CONTRACTOR WILL BE REQUIRED TO SHAPE & NOTCH ALL DRIVEWAYS, INTERSECTIONS & MAIL BOX PADS THAT ARE NOT ALREADY PAVED AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE INCIDENTAL TO THE WEAR.

CONTRACTOR WILL BE REQUIRED TO HAND FINISH SHOULDERS ON ALL APPROACHES AND ENTRANCES AS DIRECTED BY THE ENGINEER.

CERT. BY Conference LIC. No. 14720 MAR. 10, 2014

CO. PROJ. No. 8120 SHEET No. 6 OF 6 SHEETS